

Claims

[c1]

1. A system for synchronization of the digital transmission of analog modem signals, comprising:

(A) a base unit in communication with an extension unit; wherein

(B) said base unit further comprises:

(1) a base line interface circuit in communication with a modem;

(2) a base analog to digital converter connected to said base line interface circuit;

(3) a base timing / framing circuit connected to said base analog to digital converter; and

(4) a base transceiver connected to said base timing / framing circuit, wherein said base transceiver provides a signal to said extension unit.

[c2]

2. A system for synchronization of the digital transmission of analog modem signals, as recited in claim 1, wherein said base transceiver is an A/C Power Line Carrier transceiver.

[c3]

3. A system for synchronization of the digital transmission of analog modem signals, as recited in claim 1, wherein said base transceiver is an RF transceiver.

[c4]

4. A system for synchronization of the digital transmission of analog modem signals, as recited in claim 1, wherein said base transceiver receives a signal from said extension unit.

[c5]

5. A system for synchronization of the digital transmission of analog modem signals, as recited in claim 1, further comprising a base formatting circuit connected to said base transceiver.

[c6]

6.A system for synchronization of the digital transmission of analog modem signals as recited in claim 1, further comprising a base Digital to Analog converter connected to said base formatting circuit.

[c7]

7.A system for synchronization of the digital transmission of analog modem signals, comprising:

(A)a base unit in communication with an extension unit; wherein

(B)said extension unit further comprises:

(1)an extension line interface circuit in communication with a user modem;

(2)an extension analog to digital converter connected to said extension line interface circuit;

(3)an extension timing / framing circuit connected to said extension analog to digital converter; and

(4)an extension transceiver connected to said timing / framing circuit, wherein said extension transceiver provides a signal to said base unit.

[c8]

8.A system for synchronization of the digital transmission of analog modem signals, as recited in claim 7, wherein said extension transceiver is an A/C Power Line Carrier transceiver.

[c9]

9.A system for synchronization of the digital transmission of analog modem signals, as recited in claim 7, wherein said extension transceiver is an RF transceiver.

[c10]

10.A system for synchronization of the digital transmission of analog modem signals, as recited in claim 7, wherein said extension transceiver receives a signal from said base unit.

[c11]

11.A system for synchronization of the digital transmission of analog modem signals, as recited in claim 7, further comprising an extension formatting circuit in connected to said extension transceiver.

[c12]

12.A system for synchronization of the digital transmission of analog modem signals as recited in claim 7, further comprising an extension Digital to Analog converter connected to said extension formatting circuit.

[c13]

13.A method of synchronizing the digital transmission of analog modem signals, comprising:

- (A)generating a recreation clock signal from a received start bit of an asynchronous transmission;
- (B)detecting said received start bit;
- (C)receiving said start bit and a digital data signal serially from a transmission medium;
- (D)converting said received digital data signal to an analog format; and
- (E)transmitting a second digital data signal via a return path.

[c14]

14.A method of synchronizing the digital transmission of analog modem signals, as recited in claim 13, wherein said transmission medium is an A/C power line.

[c15]

15.A method of synchronizing the digital transmission of analog modem signals, as recited in claim 13, wherein said transmission medium is an over the air RF signal.